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PATENT Att'y Dkt: 11884/406701

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Thomas M. SCHAUB, et al.

Serial No.: 10/743,143 Filed: December 23, 2003

Enterprise Management Application

Providing Availability Control Checks on

Revenue Budgets

Examiner: Carol A. See

Art Unit: 3696

Confirmation No.: 7478

DECLARATION OF THOMAS SCHAUB, ANDREAS SCHAEFER, AND HORST SCHNOERER

We, Dr. Thomas Schaub, Andreas Schaefer, and Horst Schnoerer, individually and collectively declare as follows:

- We are the inventors of the above-referenced patent application currently pending before the United States Patent and Trademark Office. We are informed that the application currently contains claims 6-7, 10-13, 15-19, and 21, with claims 6, 10, and 16 being independent daims, all of which are rejected as antidpated or obvious over SAPR3 (www.sap.com, 2003), which has a publishing date of June, 2003. We understand SAPR3 is being used as prior art under 35 U.S.C. § 102 (a).
- 2. We conceived of the subject matter recited in the pending claims of this application prior to June 2003. Evidence of this fact is shown in attached Exhibits A, B and C. Exhibit A is a presentation describing a design of availability control on revenue that was available on November 28, 2002. Exhibit A illustrates a design for the subject matter recited in the pending claims. See for example slide 2 of Exhibit A which discusses the subject matter of the claimed invention. Exhibit B is a screen shot Illustrating that the presentation of Exhibit A was available on November 28, 2002. Exhibit C is further evidence of the date of the design. Exhibit C was written in December 12, 2002, and is an invitation to a design meeting for availability controls on revenue.

DC01 731875 v1

Date:

- 3. A working prototype of the subject matter recited in the pending daims was operational by at least January 16, 2003. The working prototype included the functionality of the present application. Exhibit D is an email dated January 23, 2003, sent from Dr. Thomas Schaub to SAP colleagues Juan Gulias and Gerardo Kobeh. The email includes an email sent on January 16, 2003, in which Dr. Schaub stated he had completed a working prototype. And the email of January 23, 2003, included a document describing the working prototype, "Implementation of Availability Control on Revenues", which is included as Exhibit E. The "Overview of the Implementation" section of Exhibit E illustrates that the subject matter of independent claims 6, 7, 10, and 16 of the pending application is part of the working prototype.
- 4. We exercised diligence in the completion of the invention between the dates of conception at least November 28, 2002, and reduction to practice, at least January 16, 2003, as identified above.
- I, Dr. Thomas Schaub, declare that all statements made of my own knowledge are true and that all statements made on information and belief are believed to be true and that all statements made herein are made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both (18 U.S.C. § 1001) and may jeopardize the validity of the application or any patent issuing thereon.

Dr. Thomas Schaub

I, Andreas Schaefer, d	eclare that all statements made of n	ny own knowledge are true
and that all statements made	on information and belief are belie	ved to be true and that all
statements made herein are m	nade with the knowledge that willful f	alse statements and the like
are punishable by fine or imp	risonment, or both (18 U.S.C. § 100	01) and may jeopardize the
validity of the application or an	y patent issuing thereon.	
Date:		
	Andreas Schaefer	
DC01 731875 v1	Page 2 of 3	11884/406701

I, Horst Schnoerer, declare that all statements made of my own knowledge are true and that all statements made on information and belief are believed to be true and that all statements made herein are made with the knowledge that willful false statements and the like are punishable by fine or Imprisonment, or both (18 U.S.C. § 1001) and may jeopardize the validity of the application or any patent issuing thereon.

September 1st, 2008 Horst Schnoerer

Horst Schnoerer

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Exhib it A



Availability Control

Solution for EA-PS 2.0 and JFMIP

Thomas Schaub
Development IBU PS, SAP Labs France

kenyon & kenyon

AVC on revenues: *current view* (I)

administration is allowed to receive revenues expenditures, but not to limit revenues → an Availability control was designed to limit without any upper limit.

prevents the system from posting expenditures (without negative revenue budget) AVC only Consequence: For usual revenue scenarios on revenue items

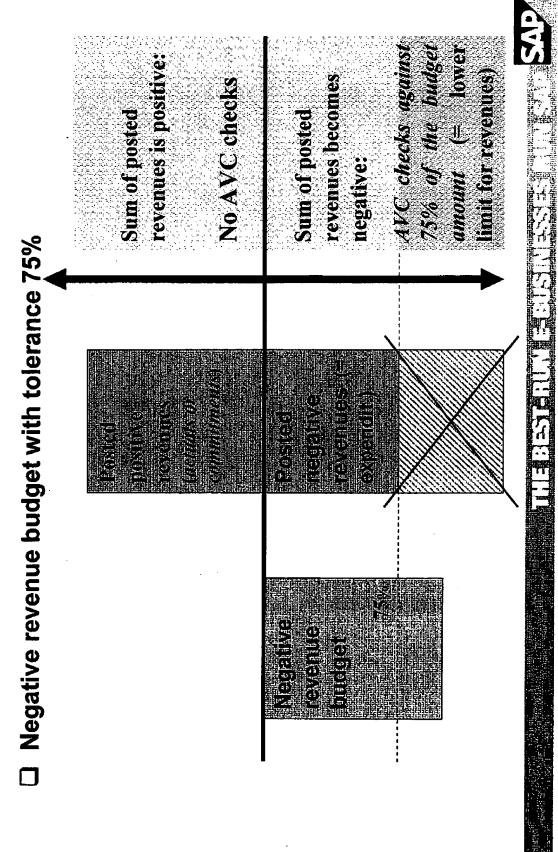


 $hudkevvalue~\theta~(=16$ wer

revenues is positive: hecome negative: 4*VC checks against* revenues would Sum of posted Sum of posted AVC on revenues: current view (II)

PAGE 22/47 * RCVD AT 9/2/2008 6:04:20 PM [Eastern Daylight Time] * SVR:USPTO-EFXRF-5/26 * DNIS:2738300 * CSID:202 220 4201 * DURATION (mm-ss):28-52

AVC on revenues: current view (III)



AVC on revenues: enhanced view

In addition and similar to limit expenditures, AVC will offer the possibility to limit revenues.

□ Examples:

- exceeded for revenues (e.g. Reimbursable Customer Orders). Q Some administration is authorized to accept revenues until certain upper limit → AVC issues an error, if this limit is
- Another administration uses rules for Revenue Increasing the revenues exceed some limit → AVC issues a warning in this Budget (RIB), but likes to be informed, when collected case.

revenues is positive: become negative amount (= upper limi AVC issues error check on revenues AVC checks against evenues would 100% of the budget for revenues): New AVC on revenues: enhanced view (Sum of posted classical check Sum of posted Example: error when checking expenditures and warning, if revenues > revenue budget

Overview of the design

Enhancement of the AVC check logic: two ceiling types that are simultaneously available for each control ledger ('single ledger approach')

kenyon & kenyon

☐ Consequences:

- Tolerance profiles with separate tolerances for 'ceiling for expenditures' and 'ceiling for revenues'
- Enhancement of the enqueue logic for shared locks
- New treatment and data storage of preposted budget values
- → reconstruct AVC necessary after upgrade
- → changes for AVC reporting
- New DB field, but no XPRA necessary

202 220 4201

Why 'single ledger approach'?

☐ Advantages:

Ceiling types are easily customizable via tolerance profiles and their assignment to control objects

AVC reporting on (preposted) budget data becomes more transparent

inversed check logic (only for ceiling for revenues) Alternative solution: separate control ledgers with

J But.

solution, if customers decide to use checks on revenues The number of control ledger has to be doubled for this

Separate check ledgers basically contain data with the same amounts (*only the sign is inversed*)

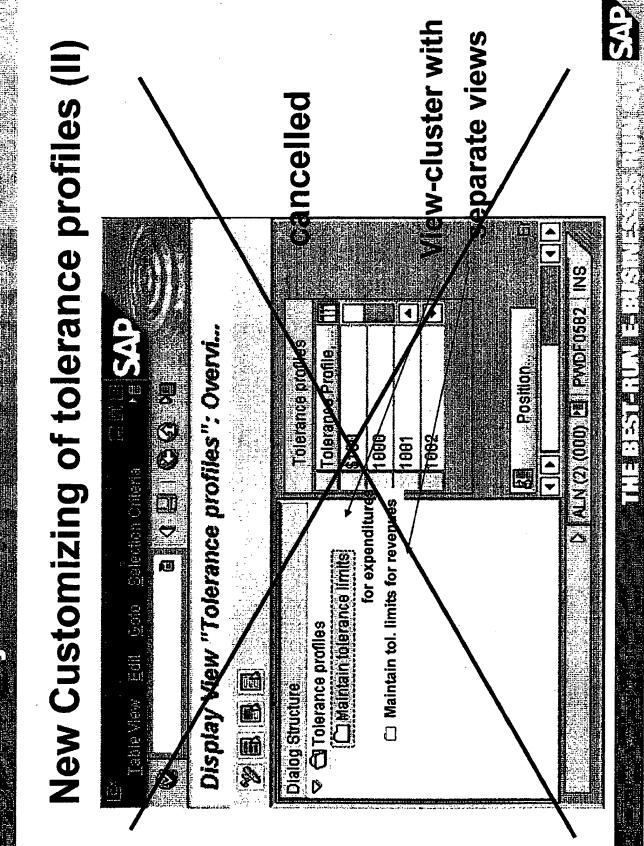


4.5

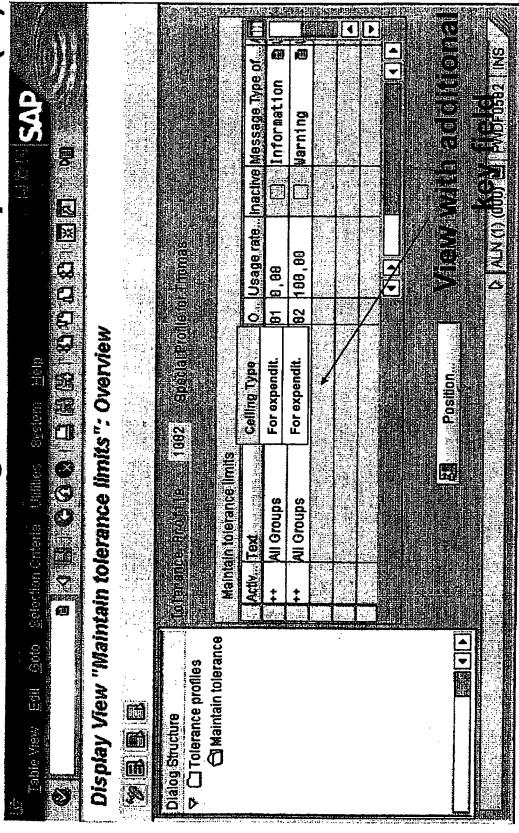
New Customizing of tolerance profiles

New key field Ceiling Type for table BUAVCTOLASS that allows for distinguishing between ceilings for expenditures and for revenues.

separate view-cluster required for applications that revenues? No, better no separate maintenance. But Enhancement of the view-cluster for maintaining tolerance profiles: separate view for ceiling for do not like to use this new ceiling type.



New Customizing of tolerance profiles



Activation of checks on revenues (I)

- ceiling type "revenues" (or also "expenditures") ☐ In principle, the use (or the deactivation) of the always possible via the assignment of special tolerance profiles per control object. OK
- which exploits the commitment item category of the □ But: Definition of a derivation strategy is needed. control object. OK
- ☐ And: Default settings required, if the tolerance profile does not provide any tolerance limits (for none of the two ceiling types):
- expenditures AND also for cheeks on revenues (?!?) *Proposal*: Error for usage rates > 0% for checks on





Activation of checks on revenues

FMAVCLDGRACT 'Maintain activation status for AVG Tedger' New idea: Separately activate checks on revenues in the view → Zadditional attributes:

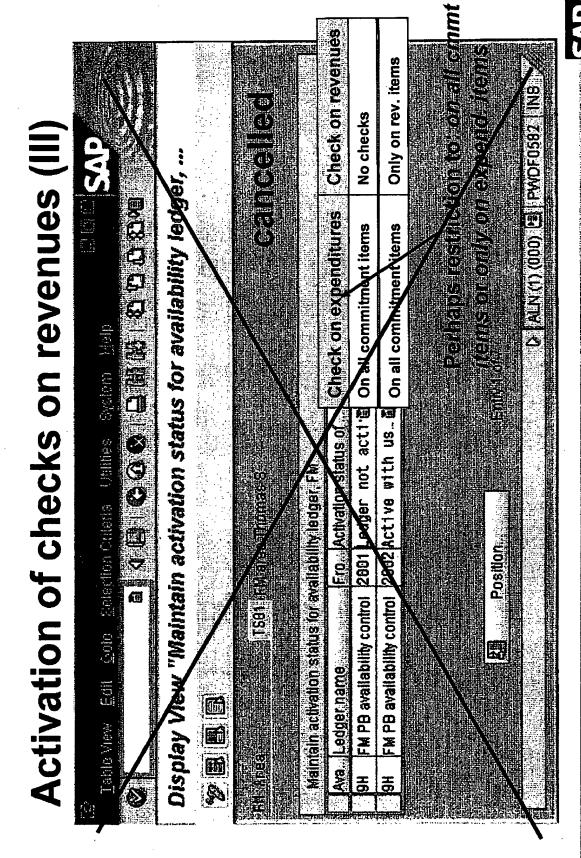
Checks on expenditures (default = checks on all commitment items)

Checks on revenues (default = no checks)

no checks,o nly checks on expenditure items (= control objects with commitment item of category '3'), only checks on revenue For each new attribute (up to) four different values are offered: cancelled items, checks on all commitment items (including value SPACE)

In apy case, all the posting and budget data should be updated the control ledger, if set active.





Wallability Control on Revenue

New handling of shared locks

shared locks in order to reserve new consumptions For ceiling type "expenditures", only amounts that reduce the available amount are considered for against concurrent users.

For ceiling type "revenues", the amounts with opposite signs have to be considered.

☐ → From now on, all amounts <> 0 have to be considered for enqueuing. Uncritical enhancement of ABAP code and of AVC lock objects



202 220 4201

Enhancement of message handling

resulted in an AVC message, a new set of messages In order to clarify, which checking type (or scope) should be created.

Messages from both checking types are treated separately and in an independent manner.

Uncritical enhancement of ABAP code.



Treatment of preposted budget values (

- For ceiling type "expenditures" (= classical AVC), only amount are considered as relevant for AVC in order to allow for UNDOing preposted documents in any case. preposted budget values that reduce the available
- For ceiling type "revenues", preposted budget values with opposite sign have to be considered.
- → From now on, all preposted budget values have to be considered as relevant for AVC.
- between 'posted'an d 'preposted-reducing' and → AVC DB data must also allow to distinguish 'preposted-increasing'.



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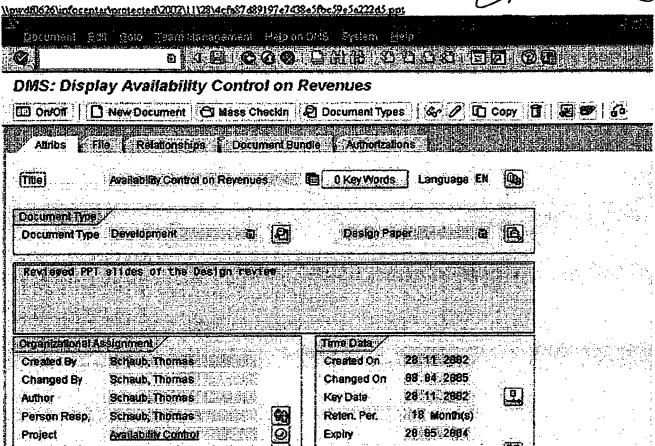
reatment of preposted budget values (II)

Proposal: Use of the field ALLOCTYPE values (e.g. PRES and PEAR).

Better use a new DB field (WFSTATE) for that Consequences for reporting: new 'key figures' necessary for AVC data:

- Only posted AVC data
- AVC data including preposted data for ceiling type "expenditures"
- AVC data including preposted data for ceiling type "revenues"
- Consequences for customers, who upgrade to EA-PS program after the upgrade, only if they like to use the 2.0: They have to run the 'Reconstruct AVC ledger' new ceiling type.





202 220 4201

P.039

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RE: Review AVC on Revenues

Exhibit c

Grace, Gregory

From: Schnoerer, Horst [horst.schnoerer@sap.com]

Sent: Thursday, December 12, 2002 3:56 AM

To: Godeby, Frank; Lindberg, Gloria; Hollberg, Juergen; Trohorsch, Claudia

Cc: Schaub, Thomas

Subject: RE: Review AVC on Revenues

Hallo Kollegen,

wenn außer mir noch jemand an diesm Meeting teilnehmen will, schlage ich vor, dass wir in den Raum CE.19 gehen. Ansonsten werde ich von meinem Platz aus teilnehmen. Gebt mir bitte Bescheid, wenn Ihr auch teilnehmt.

Viele Grüße

Horst

----Original Appointment----

From: Schaub, Thomas

Sent: Donnerstag, 12. Dezember 2002 09:25

To: Salinas, Marielle; Schnoerer, Horst; Godeby, Frank; Lindberg, Gloria; Hollberg, Juergen; Bourne, Herve

Cc: Trohorsch, Claudia; Seaton, Robyn; Schaefer, Andreas; Darnell, Geoffrey; Kobeh, Gerardo

Subject: Updated: Review AVC on Revenues

When: Donnerstag, 12. Dezember 2002 16:00-18:00 (GMT+01:00) Amsterdam, Berlin, Bern, Rome, Stockholm, Vienna.

Where: Sophia, Walldorf, Washington

UPDATE: updated slides & phone conference & meeting room in Sophia

Hi all,

I have updated the slides for our meeting.

Hello colle agues in Washington,

if you like to attend the meeting (it seems that none of you has accepted yet), then it would be good, if one of you could arrange a meeting place for a phone conference.

Hello colleagues in Sophia,

we will meet in room MENTON (2nd); the phone number is: +33 4 92 28 64 60.

Hello colleagues in Walldorf,

I still hope that Washington will join the meeting. If not, then please call us in Sophia.

B/R,

RE: Review AVC on Revenues

Page 2 of 2

Hello colleagues,

I would like to invite you to a review on the design of availability control on revenues.

kenyon & kenyon

Please have a look at the following documents:

- * PPT slides (first shot, but good for an overview):
- << File: PPT AVC on Revenues.sap >>
- * Design Paper:
- << File: Design Doc AVC on Revenues.sap >>

You can open the links, if you have established a SSO user for system PMP.

Best regards,

Thomas

P.S. I'd have preferred an earlier date, but you are too busy in December...

SEP-02-2008 18:31

kenyon & kenyon

FW: Enhancement of AVC: check on revenues

Page 1 of 2 Exhibit

Grace, Gregory

From:

Schaub, Thomas [thomas.schaub@sap.com]

Sent:

Thursday, January 23, 2003 12:01 PM

To:

Gulias, Juan; Kobeh, Gerardo

Subject:

FW: Enhancement of AVC: check on revenues

Attachments: Implementation_AVC_on_Revenues.doc

Hi Jerry and Juan,

I forgot to mention that you might also change the method MESSAGE_GIVE_DETERMINE_MSG in your application-specific LEDGER class in order to be able to distinguish messages coming from the new 'revenue' checks from AVC messages due to the 'classical' checks.

Here is the documentation of the implementation I did in ALN and MJE: <<Implementation_AVC_on_Revenues.doc>>

Cheers,

Thomas

-----Original Message-----From: Schaub, Thomas

Sent: Thursday, January 16, 2003 2:28 PM

To: Gulias, Juan; Kobeh, Gerardo

Subject:

Enhancement of AVC: check on revenues

Hi Juan and Jerry,

I have finished the implementation of the new AVC checks on revenues for FM in ALN.

If you like to use this new development for GM, then you should add the field WFSTATE_9 in your FI-SL tables GMAVC* (see how I did it for FMAVCT and FMAVCC - don't forget to enhance the table index of the objects table...) and enhance the two methods DATA_BASE_READ and ENTRY_BUFFER_WRITE of your class CL_GMAVC_LEDGER accordingly.

As you will see, there is not much work to do for you. I already enhanced your lock object E_EGMAVCT and some of your coding using this lock object. I hope that the changes I did are fine for you!

The activation of this new check mode (-> called: ceiling type) is done in the Customizing of the tolerance profiles. I created a new view cluster, which offers this possibility:

VC_BUAVCTOLLIM_CT (ct like ceiling types)

I propose to use this one instead of VC_BUAVCTOLLIM, if you like to use checks on revenues in GM.

However, there remains some conceptual problem: Do we now need a distinction between tolerance profiles used in FM and in GM? Currently all tolerance profiles can be used at the same time in both applications! But imagine that one application (like GM?) does not use checks on revenues, but uses some tolerance profile from FM, where settings are entered for ceiling type 'revenues'!

Wouldn't it be better to introduce some new key field APPLIC (with values FM and GM) in the key of the tolerance profiles? Before I write some small design paper (we will require an XPRA for that!), I will ask for your

8/28/2008

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FW: Enhancement of AVC: check on revenues

feedback and advice. This new field (data element already exists: BUAVC_APPLIC) would appear in all generic Customizing tables of class FMAVC_E in order to distinguish between different applications:

BUAVCLDGR: as attribute to distinguish control ledgers of different AVC applications BUAVCSRC: as attribute to distinguish AVC data sources belonging to different applications

BUAVCTRPO and BUAVCTOLASS: in the key for separating tolerance profiles per application
BUAVCACTGRP: in the key for separating activity groups per application (--> use in tolerance profiles)
BUAVCEVENT: in the key for separating AVC events (--> also only for use in tolerance profiles)

Should we arrange some small phone conference on that? Please let me know.

Best regards, Thomas

Dr. Thomas M. Schaub

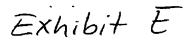
Development IBU Public Services

SAP Labs France S A. 805, Avenue du Docteur Maurice Donat Font de l'Orme - Sophia-Antipolis F-06250 MOUGINS

Phone: +33.4.92.28.62.36 Fax: +33.4.92.28.62.01

< <mailto:thomas.schaub@sap.com>>

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Implementation of Availability Control on Revenues

Releases: EA-PS 2.0 (ALN) and EA-PS 1.10 Ext. for JFMIP (MJE)

Last updated: 17.01.2003

Overview of the implementation

Principle

For controlling revenues (with tolerances of the new ceiling type 'incoming amounts') in principle only the sign of the consumable budget values and of the budget consumptions has to be inversed for the availability checks. However, also the treatment of preposted documents and of data of concurrent users (so-called foreign enqueue data) changes for checks on 'incoming amounts'.

Customizing

A new key field CEILTYPE is introduced in the Customizing of AVC tolerance profiles to distinguish between tolerances for classical AVC (ceiling type 'outgoing amounts') and for the new AVC configuration to control revenues (ceiling type 'incoming amounts').

WFSTATE

AVC has to separately store preposted values for the two ceiling types: for the classical checks only posted and reserved (preposted) data is relevant and for checks on 'incoming amouts' posted and earmarked (preposted) data is relevant. For this purpose a new DB field WFSTATE has to be created for the AVC totals table (table group FMAVC in FM). This change of the DB representation of AVC data also requires some changes for the AVC reporting.

The new field WFSTATE must also be added to the enqueue object (E_EFMAVCT in FM).

Enqueue handling

Apart from the above-mentioned new field WFSTATE in the enqueue object, now all values must be sent to the enqueue server. The distinction on the sign of the amounts is only done for foreign enqueue values (= enqueue data of concurrent users) after reading them from the enqueue server in the CHECK process event. AVC must keep positive and negative amounts in separate internal tables for the availability checks in order to use them separately for checks on 'outgoing amounts' and on 'incoming amounts'.

Message handling

For distinguishing between the check results coming from different ceiling types, a new set of messages has to be created, which mention in the long text that they arise from AVC checks on incoming amounts.

Reporting

The function modules for selecting or calculating AVC data have to be changed. In addition, the AVC data reports have to be changed, too, in order to display control object data in the context of the checks on 'incoming amounts'.

SEP-02-2008 18:32 kenyon & kenyon 202 220 4201 P.044

Changed or new objects

Data elements and domains

The data elements BUAVC_CEILTYPE (new domain BUAVC_CEILTYPE) and BUAVC_WFSTATE (taking the existing domain BUKU_WFSTATE) have been created.

Structures

- The new structure BUAVC_S_AVC_CHECK_RESULT has been created, which
 contains the complete list of fields obtained as result of some availability check.
 This structure appears in many method interfaces as parameter.
- The structure BUAVC_S_TOLPROF_SET has been enhanced by the new field CEILTYPE. This structure is used for reading the Customizing of tolerance profiles in the function module BUAVC_GET_TOLERANCE_LIMITS.
- The structure FMAVCT_KEY received a new field WFSTATE. This structure is used for the definition of the enqueue (or lock) object E_EFMAVCT in FM.
- FMAVC_S_ACO_ANNUAL_TOTALS (only ALN): instead of the two fields CONSUMABLE_BUDGET and CONSUMED_AMOUNT the six new fields CONSUMABLE_BDGT_POSTED, CONSUMABLE_BDGT_RESERVED, CONSUMABLE_BDGT_EARMARKED, CONSUMED_AMOUNT_POSTED, CONSUMED_AMOUNT_RESERVED, and CONSUMED_AMOUNT_EARMARKED were created to separate AVC data in FM from posted and preposted (reserved or earmarked) documents. Therefore the function modules FMAVC_SELECT_ANNUAL_TOTALS_ACO (both in ALN and slightly different in MJE) and FMAVC_SELECT_MULTAN_TOTALS_ACO (only ALN) had to be changed. Also the include RFFMAVC_CTRLDATA_0100_AVC calling the latter function module had to be modified (this include is used for both AVC data reports).
- FMAVC_S_BO_ANNUAL_TOTALS (only ALN): this structure was changed exactly as the previous one. Accordingly the function module
 FMAVC_CALC_ANNUAL_CONTRIB_BO (only ALN) using this structure and the same include RFFMAVC_CTRLDATA_0100_AVC (only ALN) calling this function had to be changed, too.

DB tables

- The customizing table BUAVCTOLASS received a new key field CEILTYPE. No XPRA is necessary, because the initial value (default) corresponds to the classical AVC configuration for controlling 'outgoing amounts'.
- The AVC totals table FMAVCT and the objects table FMAVCC received the new attribute WFSTATE_9. For table FMAVCC the table index 1 had to be enhanced, too, and finally the FI-SL XPRA RGZZGLUX had to be run in order to regenerate FI-SL structures and ABAP code. If a customer likes to use the new ceiling type 'incoming amounts', then he must run the reconstruct AVC program. There is no need for a reconstruct or for an XPRA, if existing Enterprise 1.10

SEP-02-2008 18:32 kenyon & kenyon 202 220 4201 P.045

customers does not use the new development – the initial value (SPACE) of the WFSTATE field is always interpreted as 'posted' data.

Views and view-clusters

The view V_BUAVCTOLASS has been modified in order to only display and treat tolerance profiles with values of ceiling type 'outgoing amounts'. The view V_BUAVCTOLASS_CT has been created, which allows the maintenance of both ceiling types. This view is used in the new view-cluster VC_BUAVCTOLLIM_CT, which is used for the IMG activity 'Edit tolerance profiles' in FM (only ALN; in MJE the existing view VC_BUAVCTOLLIM has been enhanced to treat both ceiling types – it was not possible in MJE to create maintenance modules in SE54 for a new view, which already exists as original in ALN).

Lock objects

The lock object E_EFMAVCT obtained a new field WFSTATE. The ABAP code of the following objects has to be modified accordingly: function modules FMAVC_RELEASE_GLOBAL_ENQUEUE and FMAVC_SET_GLOBAL_ENQUEUE and methods ENQUEUE_VALUES_READ, VALUES_DEQUEUE and VALUES ENQUEUE of class CL_FMAVC_LEDGER.

Changed function modules

- BUAVC_GET_TOLERANCE_LIMITS: read new field CEILTYPE in DB table BUAVCTOLASS. Currently if there is no entry found for ceiling type 'outgoing amounts', then an entry with Error for usage rate % is returned. This means that a customer has to explicitly switch off checks on 'outgoing amounts' (as before) and to explicitly switch on checks on 'incoming amounts'.
- FMAVC_RELEASE_GLOBAL_ENQUEUE: use new field WFSTATE of the lock object
- FMAVC_SET_GLOBAL_ENQUEUE: use new field WFSTATE of the lock object
- FMAVC_SELECT_ANNUAL_TOTALS_ACO (different in ALN and MJE): treat the new field WFSTATE of AVC totals
- FMAVC SELECT MULTAN_TOTALS_ACO (only ALN)
- FMAVC CALC ANNUAL CONTRIB BO (only ALN)

Class CL BUAVC LEDGER and its sub-classes

The internal type CATEGORY of the super class received a new field: WFSTATE. The following methods of the super class were modified:

- AVAILABILITY_CHECK_PERFORM: new interface (parameters) and enhanced standard implementation for separating data for the two different ceiling types. The method VALUES_CHECK is called twice, for each ceiling type separately.
- AVC_ACTION_EVALUATE: new interface (parameters) and enhanced standard implementation. For each ceiling type, messages and AVC events are treated separately.

SEP-02-2008 18:32 kenyon & kenyon 202 220 4201 P.046

• CATEGORY_FILL: pre-set the field CATEGORY-WFSTATE with 'Posted' and now use a constant for the single field value CATEGORY-ALLOCTYPE.

- CHECK: no change to the flow logic, only the interface of some methods called here had to be changed.
- ENQUEUE_VALUES_READ: new interface (exporting parameters) no standard implementation.
- MESSAGE_GIVE: new interface (parameter i_ceiltype) and slight change of the standard implementation
- NEW_ENQUEUE_DATA_PREPARE: new interface (parameters) and enhancement of the standard implementation: new shared locks are only created, if there is no error for both ceiling types. In addition, new shared locks from the present checks and from already posted (and not COMMITed) documents are not COLLECTed together anymore. These values are separately enqueued to allow for independent treatment of the two kinds of documents (already posted data is rather likely to be COMMITed, but check values from the current document may also be simply rejected may be that the user only pressed the CHECK button!
- PARKED_VALUES_HANDLE: no preposted data is rejected anymore—according to the sign of the changes to the available amount, the WFSTATE value 'Reserved' or 'Earmarked' is selected. Currently this decision is exclusively based on annual amounts, which means that the selection of the WFSTATE values is independent on the checking horizon (may be that we have to change this...).
- VALUES_CHECK: new interface (parameters) and enhancement of the standard implementation to cover different ceiling types. For ceiling type 'incoming amounts' the sign of all amounts is inversed before doing the real check.

The following methods of the FM-specific sub-class CL_FMAVC_LEDGER have been modified, too:

- DATA BASE READ: select AVC totals data for all WFSTATE values
- ENQUEUE_VALUES_READ: distinguish enqueue data from concurrent users (foreign locks) according to the sign and store them separately in two different internal tables (one for each ceiling type).
- ENTRY_BUFFER_WRITE: store the new field CATEGORY-WFSTATE in the corresponding DB field.
- VALUES DEQUEUE: treat the new field WFSTATE, when releasing locks
- VALUES ENQUEUE: treat the new field WFSTATE, when setting locks
- MESSAGE_GIVE_DETERMINE_MSG: use other message numbers for ceiling type 'incoming amounts'.

Messages

The messages 051 through 069 (FMAVC) have been created for messages from ceiling type 'incoming amounts' and the messages 001 through 019 have been enhanced to indicate that ceiling type 'outgoing amounts' did the job.

Reports and includes

- IBUAVCCON: new constants for ceiling type and workflow status
- RFBUAVC_VIEWS_FORM_POOL: enhanced check on the order of usage rates in the tolerance profile Customizing
- RFFMAVC_CTRLDATA_0100_AVC (only ALN): ...

P.047